Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A process for cleaning an integrated circuit package surface, comprising:

encapsulating an integrated circuit die into an integrated circuit package;
introducing said integrated circuit package inside a plasma chamber; and
exposing said integrated circuit package to a noble gas ion plasma for a selected
time and strength to remove an upper layer of material from the package; and
placing a pattern of ink marking on said package for marking said package.

- 2. (Original) The cleaning process according to Claim 1, wherein said physical plasma has a halogen-type behavior.
- 3. (Previously Presented) The cleaning process according to Claim 1 wherein said noble gas ion plasma is obtained in the presence of a pure noble gas.
- 4. (Original) The cleaning process according to Claim 3, wherein said noble gas is argon.
- 5. (Previously Presented) The cleaning process according to Claim 1 wherein said step of exposing said integrated circuit to a noble gas ion plasma comprises the step of energizing said plasma by applying the following energization parameters: energization time, between 12 and 15 seconds; energization power, between 140 and 160 W; and plasma chamber pressure, between 190 and 210 millitorr.

- 6. (Original) The cleaning process according to Claim 1, further including: applying a continuous voltage to obtain ionization of said plasma.
- 7. (Original) The cleaning process according to Claim 1, further including: applying a radio-frequency voltage at a frequency of between 1 kHz and 100 GHz, to obtain ionization of said plasma.
- 8. (Original) The cleaning process according to Claim 1 wherein the exposing of said integrated circuit to a physical plasma occurs in a single exposure.
- 9. (Original) The process according to Claim 1 wherein the package is composed of a ceramic material.
- 10. (Currently Amended) The manufacturing process according to Claim 1, further comprising placing a pattern of ink marking on said package for marking said package wherein said ink marking step is carried out using a laser ink marking technique.
- 11. (Original) The process according to Claim 1 wherein the package is composed of a plastic material.
- 12. (Original) The process according to Claim 1 wherein the package is composed of an epoxy resin material.
- 13. (Original) The process according to Claim 1 wherein the package includes exposed metal components.

14. (Previously Presented) A process for manufacturing an integrated circuit, comprising:

cleaning of an integrated circuit package surface by introducing the packaged integrated circuit into a plasma chamber;

exposing the package surface to a noble gas ion plasma;

removing a layer of material from the package surface to clean the upper surface of the package; and

ink marking said package surface.

- 15. (Original) The manufacturing process according to Claim 14, wherein said ink marking process is carried out using a laser ink marking technique.
- 16. (Original) The process according to Claim 14 wherein the package is composed of a ceramic material.
- 17. (Original) The process according to Claims 14 wherein the package is composed of a plastic material.
- 18. (Original) The process according to Claim 14 wherein the package is composed of an epoxy resin material.
- 19. (Original) The process according to Claim 14 wherein the package includes exposed metal components.
- 20. (Previously Presented) The cleaning process according to Claim 1, wherein said noble gas is helium.